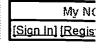
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Production, preliminary characterisation and applications of monoclonal antibodies to porcine circovirus.

Allan GM, Mackie DP, McNair J, Adair BM, McNulty MS.

Veterinary Sciences Division, Department of Agriculture, Stormont, Belfast, UK.

The preparation of monoclonal antibodies (mAbs) to porcine circovirus is described. Preliminary characterisation was carried out on nine mAbs obtained from two fusions and included isotyping, virus neutralisation assays and indirect immunofluorescence staining patterns obtained following immunostaining of both a porcine circovirus (PCV)-persistently infected pig kidney (PK/15/W) and Vero (Vero-PCV) cell line. Significant differences in the staining patterns were observed in both cell lines which appeared to be dependent on the subculture status of the Vero-PCV cultures. The development of a mAb-based antigen capture enzyme linked immunosorbent assay (ELISA) as an aid to virus purification is also described. The use of mAbs for the detection of PCV antigen in cryostat sections from a pig experimentally infected with the virus leading to identification of the sites of replication of PCV is also reported.

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Porcine circovirus antigens in PK-15 cell line (ATCC CCL-33) and evidence of antibodies to circovirus in Canadian pigs.

Dulac GC, Afshar A.

Agriculture Canada, Animal Diseases Research Institute, NEPEAN, Ontario.

Permanent infection of a PK-15 (ATCC CCL-33) cell line by the porcine circovirus was demonstrated. This virus appears to be common in the Canadian swine population as indicated by the presence of antibodies detected by indirect immunofluorescence or immunoperoxidase tests in the serum of culled sows and sows in commercial herds. One source of the PK-15 cell line was found to be free of circovirus antigen.

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Evaluation of a gp 55 (E2) recombinant-based ELISA for the detection of antibodies induced by classical swine fever virus.

Muller A, Depner KR, Liess B.

Institute of Virology, Hannover Veterinary School, Germany.

An enzyme-linked immunosorbent assay (ELISA) for the detection of antibodies against classical swine fever virus (CSFV) based on the competition of the serum antibodies with a CSFV-specific monoclonal antibody directed against the viral glycoprotein gp 55 (E2), has been evaluated. A total of 553 sera obtained from pigs experimentally infected in groups with different pestiviruses were included in this study. The ELISA was applied to a group of sera collected from pigs prior to pestivirus inoculation and therefore expected to have no detectable CSFV neutralizing antibodies. The specificity of the ELISA was calculated to range between 93% and 98%. The sensitivity of the ELISA was determined by testing predominantly sera of pigs exposed to CSFV and exhibiting CSFV neutralizing antibodies. When the cut-off level was reduced by 10%, the average sensitivity increased from 60% to 70% for the groups of sera tested. The ELISA was able to discriminate between CSFV and bovine viral diarrhoea virus (BVDV) induced antibodies.

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1. Document ID: WO 200116330 A2, AU 200072855 A, BR 200014155 A, EP 1246920 A2, KR 2002068325 A, US 6517843 B1, JP 2003513617 W, HU 200203834 A2, CN 1409765 A, MX 2002002208 A1, ZA 200202458 A

L23: Entry 1 of 4

File: DWPI

Mar 8, 2001

DERWENT-ACC-NO: 2001-244408

DERWENT-WEEK: 200445

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TITLE: Use of porcine circovirus-2 immunogen to formulate a vaccine composition to treat pigs against myocarditis, abortion, intrauterine infection and/or post-weaning, multisystemic wasting syndrome associated with PCV-2

INVENTOR: <u>ALLAN, G</u> M; AUDONNET, J F; CHAPPUIS, G E; CHARREYRE, C E; CLARK, E; ELLIS, J A; HAINES, D; HARDING, J; HASSARD, L; KRAKOWKA, G S; MCNEILLY, F; MEEHAN, B; AUDONNET, J; MEEHAM, B; MOORE, G A

PRIORITY-DATA: 2000US-0583350 (May 31, 2000), 1999US-151564P (August 31, 1999)

PATENT-FAMILY:

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BR 200014155 A	May 7, 2002		000	C12N015/34
EP 1246920 A2	October 9, 2002	E	000	C12N015/34
KR 2002068325 A	August 27, 2002		000	A61K039/12
US 6517843 B1	February 11, 2003		000	A61K039/12
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HU 200203834 A2	March 28, 2003		000	C12N015/34
CN 1409765 A	April 9, 2003		000	C12N015/34
MX 2002002208 A1	November 1, 2002		000	A61K039/12
ZA 200202458 A	January 28, 2004		086	A61K000/00

INT-CL (IPC): A01 K 63/00; A61 K 0/00; A61 K 35/76; A61 K 39/12; A61 K 48/00; A61 P 9/00; A61 P 15/00; A61 P 15/06; A61 P 43/00; C07 K 14/01; C12 N 7/00; C12 N 7/04; C12 N 15/09; C12 N 15/34

Full Title Citation Front Review Classification Date Reference

2. Document ID: US 20040258715 A1, WO 9918214 A1, AU 9893555 A, FR 2776294 A1, EP 1019510 A1, BR 9812845 A, HU 200003756 A2, CN 1278301 A, KR 2001030930 A, JP

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L23: Entry 2 of 4 File: DWPI Dec 23, 2004

DERWENT-ACC-NO: 1999-264024

DERWENT-WEEK: 200504

COPYRIGHT 2005 DERWENT INFORMATION LTD TITLE: New type II porcine circovirus

INVENTOR: CHAPPUIS, G E; CHARREYRE, C E; CLARK, E; ELLIS, J; GORDON, A; HAINES, D; HARDING, J; HASSARD, L; MEEHAN, B; ALLAN, G; BABIUK, L A; CHAPUIS, G E; MCNEILLY, F; POTTER, A A; WANG, L; WILLSON, P; MC NEILLY, F

PRIORITY-DATA: 1998FR-0003707 (March 20, 1998), 1997FR-0012382 (October 3, 1997), 1998FR-0000873 (January 22, 1998), 2003AU-0248395 (September 25, 2003), 1998FR-0008777 (July 6, 1998)

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AU 2002302120 A1	March 20, 2003		000	C12N015/34
US 20040132178 A1	July 8, 2004		000	C12P001/00

1281760 A1 , AU 756554 B , EP 1019510 B1 INT-CL (IPC): A01 N 63/00; A01 N 65/00; A61 K 31/70; A61 K 38/00; A61 K 39/12; A61 K 39/125; A61 K 39/255; A61 K 39/295 ; A61 K 39/40; A61 K 39/42; A61 K 45/00; A61 K 48/00; C07 H 21/04; C07 K 1/00; C07 K 14/00; C07 K 14/01; C07 K 16/08; C07 K 17/00; C12 N 5/00; C12 N 5/02; C12 N 7/00; C12 N 7/01; C12 N 7/02; C12 N 7/04; C12 N 7/06; C12 N 7/08; C12 N 15/00; C12 N

Record List Display Page 3 of 4

C12 P 21/08; C12 Q 1/68; C12 Q 1/70; G01 N 33/53; G01 N 33/569

Full Title Citation Front Review Classification Date Reference Claims KWAC Draw De

3. Document ID: FR 2769322 A1

L23: Entry 3 of 4

File: DWPI

Apr 9, 1999

DERWENT-ACC-NO: 1999-246948

DERWENT-WEEK: 200445

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TITLE: New type II porcine circovirus, used for, e.g. passive immunization of

pregnant sows

INVENTOR: ALLAN, G; CHAPPUIS, G E; CHARREYRE, C E; CLARK, E; ELLIS, J; HAINES,

D ; HARDING, J ; HASSARD, L ; MEEHAN, B

PRIORITY-DATA: 1997FR-0012382 (October 3, 1997)

PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE PAGES MAIN-IPC FR 2769322 A1 April 9, 1999 048 C12N007/00

INT-CL (IPC): $\underline{A61}$ \underline{K} $\underline{39/12}$; $\underline{A61}$ \underline{K} $\underline{48/00}$; $\underline{C07}$ \underline{H} $\underline{21/00}$; $\underline{C07}$ \underline{K} $\underline{14/01}$; $\underline{C07}$ \underline{K} $\underline{16/08}$; $\underline{C12}$ \underline{N} $\underline{7/00}$; $\underline{C12}$ \underline{N} $\underline{15/34}$; $\underline{C12}$ \underline{N} $\underline{15/85}$; $\underline{G01}$ \underline{N} $\underline{33/569}$

Full Title Citation Front Review Classification Date Reference Claims KMC Draw Do

4. Document ID: US 20040258715 A1, FR 2769321 A1, BR 9812845 A, CN 1278301 A, KR 2001030930 A, DE 69816460 E, ES 2203984 T3

L23: Entry 4 of 4

File: DWPI

Dec 23, 2004

DERWENT-ACC-NO: 1999-246947

DERWENT-WEEK: 200504

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TITLE: New porcine circovirus from animals with porcine systemic wasting syndrome

INVENTOR: CHAPPUIS, G E; CHARREYRE, C E; CLARK, E; ELLIS, J; GORDON, A; HAINES, D; HARDING, J; HASSARD, L; MCNEILLY, F; MEEHAN, B; ALLAN, G

PRIORITY-DATA: 1997FR-0012382 (October 3, 1997), 1998FR-0000873 (January 22, 1998), 1998FR-0003707 (March 20, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20040258715 A1	December 23, 2004		000	A61K039/12
FR 2769321 A1	April 9, 1999	i.	035	C12N007/00
BR 9812845 A	August 8, 2000	l1 4~	000	C12N015/34
CN 1278301 A	December 27, 2000		000	C12N015/34
KR 2001030930 A	April 16, 2001	,	000	C12N015/34

DE 69816460 E

August 21, 2003

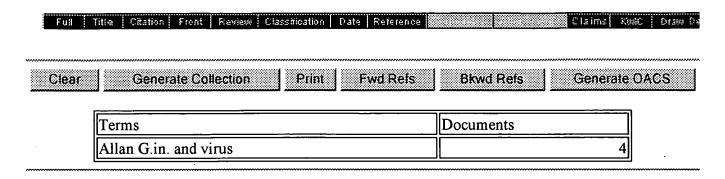
000 C12N015/34

ES 2203984 T3

April 16, 2004

000 C12N015/34

INT-CL (IPC): A61 K 39/12; A61 K 48/00; C07 H 21/00; C07 K 14/01; C07 K 16/08; C12 \underline{N} $\underline{7/00}$; $\underline{C12}$ \underline{N} $\underline{7/01}$; $\underline{C12}$ \underline{N} $\underline{15/34}$; $\underline{C12}$ \underline{N} $\underline{15/85}$; $\underline{C12}$ \underline{Q} $\underline{1/68}$; $\underline{G01}$ \underline{N} $\underline{33/53}$; $\underline{G01}$ \underline{N} $\underline{33/569}$



Display Format: CIT

Change Format

Previous Page

Next Page

Go to Doc#

Hit List

Clear Generate Collection Print Fwd Refs Bkwd Refs
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Search Results - Record(s) 1 through 5 of 5 returned.

1. Document ID: US 6841364 B2

L10: Entry 1 of 5

File: USPT

Jan 11, 2005

US-PAT-NO: 6841364

DOCUMENT-IDENTIFIER: US 6841364 B2

TITLE: Infectious cDNA clones of porcine reproductive and respiratory syndrome

virus and expression vectors thereof

DATE-ISSUED: January 11, 2005

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Yuan; Shishan

St. Paul

MN

Ma; Shi-Jun

Shoreview

MN

US-CL-CURRENT: 435/91.1; 435/69.1, 435/91.2

Full Tit	Citation Front Review Classification Date Reference Claims KMC Draw	Ð e
		~~~
3 ^{mm} 0	Downson ID. US 6660272 D2	

2. Document ID: US 6660272 B2

L10: Entry 2 of 5

File: USPT

Dec 9, 2003

US-PAT-NO: 6660272

DOCUMENT-IDENTIFIER: US 6660272 B2

TITLE: Porcine circoviruses, vaccines and diagnostic reagents

DATE-ISSUED: December 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY	
Allan; Gordon	Belfast	•			GB	
Meehan; Brian	Belfast				GB	
Clark; Edward	Saskatoon				CA	
Ellis; John	Saskatoon				CA	
Haines; Deborah	Saskatoon				CA	
Hassard; Lori	Saskatoon				CA	
Harding; John	Humboldt				CA	

Record List Display Page 2 of 3

Charreyre; Catherine Elisabeth Saint-Laurent de Mure FR
Chappuis; Gilles Emile Lyons FR
McNeilly; Francis Newtonards GB

US-CL-CURRENT: 424/204.1; 424/278.1, 424/281.1, 424/93.1, 435/235.1, 435/236, 435/237, 435/238, 435/239, 536/23.72

3. Document ID: US 6497883 B1

L10: Entry 3 of 5 File: USPT Dec 24, 2002

US-PAT-NO: 6497883

DOCUMENT-IDENTIFIER: US 6497883 B1

** See image for Certificate of Correction **

TITLE: Porcine circovirus recombinant poxvirus vaccine

DATE-ISSUED: December 24, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Bublot; Michel Delmar NY
Perez; Jennifer M. East Nassau NY

Charreyre; Catherine E. St.-Laurent De Mure FR

US-CL-CURRENT: 424/204.1; 424/199.1, 424/209.1, 424/218.1, 435/235.1, 435/320.1,

<u>536/23.72</u>

4. Document ID: US 6368601 B1

L10: Entry 4 of 5 File: USPT Apr 9, 2002

US-PAT-NO: 6368601

DOCUMENT-IDENTIFIER: US 6368601 B1

** See image for <u>Certificate of Correction</u> **

TITLE: Porcine circovirus vaccine and diagnostics reagents

DATE-ISSUED: April 9, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Allan; Gordon Belfast GB
Meehan; Brian Belfast GB
Clark; Edward Saskatoon CA
Ellis; John Saskatoon CA

Record List Display Page 3 of 3

Haines; Deborah	Saskatoon	CA
Hassard; Lori	Saskatoon	CA
Harding; John	Humboldt	CA
Charreyre; Catherine Elisabeth	Saint-Laurent de Mure	FR
Chappuis; Gilles Emile	Lyons	FR
McNeilly; Francis	Newtownards	GB

 $\text{US-CL-CURRENT: } \underline{424/204.1}; \ \underline{435/235.1}, \ \underline{435/320.1}, \ \underline{435/5}, \ \underline{514/44}, \ \underline{536/23.1}, \ \underline{536/23.4}$

Full Title Citation Front Review Cla	assification Date Reference	Claims KWC Draw De
3		
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5. Document ID: US 6217	883 B1	
L10: Entry 5 of 5	File: USPT	Apr 17, 2001

US-PAT-NO: 6217883

DOCUMENT-IDENTIFIER: US 6217883 B1

** See image for Certificate of Correction **

TITLE: Porcine circovirus and paravovirus vaccine

DATE-ISSUED: April 17, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Allan; Gordon Moore Belfast GB Meehan; Brian Martin Belfast GB Ellis; John Albert CA Saskatchewan Krakowka; George Steven Columbus OH Audonnet; Jean-ChrJistophe Francis FR Lyons

US-CL-CURRENT: 424/202.1; 424/199.1, 424/201.1, 424/209.1, 424/220.1, 424/229.1, 424/257.1, 424/264.1, 424/815, 435/235.1, 435/810, 514/44

Full Title Citation	Front Review Classification Da	te Reference	Claims KMC Draw De
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Previous Page Next Page Go to Doc#

Record List Display Page 1 of 6

Hit List

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Search Results - Record(s) 1 through 10 of 30 returned.

1. Document ID: US 20050058653 A1

L57: Entry 1 of 30 File: PGPB Mar 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050058653

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050058653 A1

TITLE: Prevention of myocarditis, abortion and intrauterine infection associated

with porcine circovirus-2

PUBLICATION-DATE: March 17, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY RULE-47
Ellis, John	Saskatoon	ОН	CA
Allan, Gordon Moore	Belfast		GB
Meehan, Brian	Belfast		GB
Clark, Edward	Saskatoon		CA
Haines, Deborah	Saskatoon		CA
Hassard, Lori	Saskatoon		CA
Harding, John	Humboldt		CA
Charreyre, Catherine Elisabeth	Saint-Laurent de Mure		FR
Chappuis, Gilles Emile	Lyon		FR
Krakowka, George Steve	Colombus		US
Audonnet, Jean-Christophe Francis	Lyon		FR
McNeilly, Francis	Newtonards		GB

US-CL-CURRENT: 424/186.1; 514/44

	Full	Title	Elitation Front	Review Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draws De
·											
		2.	Document ID:	US 20050031647	'A1						

File: PGPB

Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050031647

PGPUB-FILING-TYPE: new

L57: Entry 2 of 30

DOCUMENT-IDENTIFIER: US 20050031647 A1

TITLE: Lawsonia intracellularis of European origin and vaccines, diagnostic agents and methods of use thereof

Record List Display Page 2 of 6

PUBLICATION-DATE: February 10, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Roof, Michael B. Ames IA US
Kroll, Jeremy J. Urbandale IA US
Knittel, Jeffrey P. Melbourne FL US

US-CL-CURRENT: 424/234.1; 435/252.3, 435/320.1, 514/44

Full Title Chation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Do

3. Document ID: US 20050025806 A1

L57: Entry 3 of 30 File: PGPB Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050025806

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050025806 A1

TITLE: Sustained release pharmaceutical composition

PUBLICATION-DATE: February 3, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Brandon, Malcolm Bulleen CT AU Martinod, Serge R. Groton US

US-CL-CURRENT: 424/423; 424/85.1, 514/12, 514/169, 514/44

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KOMC | Draw De

4. Document ID: US 20050008651 A1

L57: Entry 4 of 30 File: PGPB Jan 13, 2005

PGPUB-DOCUMENT-NUMBER: 20050008651

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050008651 A1

TITLE: Circovirus sequences associated with piglet weight loss disease (PWD)

PUBLICATION-DATE: January 13, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Jestin, AndreSaint-BrieucFRAlbina, EmmanuelTregueuxFRLe Cann, PierrePledranFR

Record List Display Page 3 of 6

Blanchard, Philippe FR Plerin Hutet, Evelyne Plerin FRFR Arnauld, Claire Saint-Brieuc Truong, Catherine Saint-Brieuc FR Mahe, Dominique Saint-Carreuc FR Cariolet, Roland Ploufragan FR Madec, Francois Saint-Brieuc FR

US-CL-CURRENT: 424/184.1; 424/199.1, 424/205.1, 530/350

Full Ti	tie Citation Front	Review Classification D.	ate Reference	Sequences	Atlachments	Claims	KMC	Draw De
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5 .	Document ID:	US 20040265848 A	1					
L57: En	try 5 of 30		File: P	GPB		Dec 3	30,	2004

PGPUB-DOCUMENT-NUMBER: 20040265848

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040265848 A1

TITLE: Circovirus sequences associated with piglet weight loss disease (PWD)

PUBLICATION-DATE: December 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jestin, Andre	Saint-Brieuc		FR	
Albina, Emmanuel	Tregueux		FR	
Cann, Pierre Le	Pledran		FR	
Blanchard, Philippe	Plerin		FR	
Hutet, Evelyne	Plerin		FR	
Arnauld, Claire	Saint-Brieuc		FR	
Truong, Catherine	Saint-Brieuc		FR	
Mahe, Dominique	Saint-Carreuc		FR	
Cariolet, Roland	Ploufragan		FR	
Madec, Francois	Saint-Brieuc		FR	

US-CL-CURRENT: 435/6; 424/204.1, 435/325

Full Title Citation Front Review Classification Date	Reference Sequences Attachments	s Claims KOMC Draw De
		·····
6. Document ID: US 20040258715 A1		
L57: Entry 6 of 30	File: PGPB	Dec 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040258715

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040258715 A1

Record List Display Page 4 of 6

TITLE: Porcine circoviruses, vaccines and diagnostic reagents

PUBLICATION-DATE: December 23, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Belfast Allan, Gordon Meehan, Brian Belfast GB Clark, Edward Saskatoon CA Ellis, John Saskatoon CA Haines, Deborah Saskatoon CA Hassard, Lori Saskatoon CA Harding, John Humboldt CA Charreyre, Catherine Elisabeth Saint-Laurent de Mure FR Chappuis, Gilles Emile Lyon FR McNeilly, Francis Newtonards GB

US-CL-CURRENT: 424/204.1; 435/235.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | Kook | Draw Da

7. Document ID: US 20040253270 A1

L57: Entry 7 of 30 File: PGPB Dec 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040253270

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040253270 A1

TITLE: Chimeric infectious DNA clones, chimeric porcine circoviruses and uses

thereof

PUBLICATION-DATE: December 16, 2004

INVENTOR-INFORMATION:

NAME CITY RULE-47 STATE COUNTRY Meng, Xiang-Jin Blacksburg VA US Fenaux, Martijn Redwood City CA US Halbur, Patrick G. Ames TΑ US

US-CL-CURRENT: 424/199.1; 435/235.1, 536/23.72

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KOMC | Draw De

8. Document ID: US 20040247617 A1

L57: Entry 8 of 30 File: PGPB Dec 9, 2004

PGPUB-DOCUMENT-NUMBER: 20040247617

Record List Display Page 5 of 6

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040247617 A1

TITLE: Fusion antigen used as vaccine

PUBLICATION-DATE: December 9, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Liao, Chao-Wei Chunan Town TW Weng, Chung-Nan Chunan Town TW

US-CL-CURRENT: 424/192.1; 435/320.1, 435/325, 435/69.3, 530/350, 536/23.7

Fuil	Title	Citation	Front	Review	Classification		Attachments		

9. Document ID: US 20040161410 A1

L57: Entry 9 of 30 File: PGPB Aug 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040161410

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040161410 A1

TITLE: Circovirus sequences associated with piglet weight loss disease (PWD)

PUBLICATION-DATE: August 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jestin, Andre	Saint-Brieuc		FR	
Albina, Emmanuel	Tregueux		FR	
Cann, Pierre Le	Pledran		FR	
Blanchard, Philippe	Plerin		FR	
Hutet, Evelyne	Plerin		FR	
Arnauld, Claire	Saint-Brieuc		FR	
Truong, Catherine	Saint-Brieuc		FR	
Mahe, Dominique	Saint-Carreuc		FR	
Cariolet, Roland	Ploufragan		FR	
Madec, Francois	Saint-Brieuc		FR	

US-CL-CURRENT: 424/93.2; 424/186.1, 514/44

Full Title Citation Front	Review Classification Date	Reference Sequences A	Hachmenis Claims KMMC Draw De
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10. Document ID: US 20040132178 A1

L57: Entry 10 of 30 File: PGPB Jul 8, 2004

Record List Display Page 6 of 6

PGPUB-DOCUMENT-NUMBER: 20040132178

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040132178 A1

TITLE: Postweaning multisystemic wasting syndrome and porcine circovirus from pigs

PUBLICATION-DATE: July 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Haines, Deborah	Saskatoon	TX	CA	
Allan, Gordon	Belfast		GB	
Ellis, John	Saskatoon		CA	
Meehan, Brian	Belfast		GB	
Clark, Edward	Saskatoon		CA	
Hassard, Lori	Saskatoon		CA	
Harding, John	Humboldt		CA	
Charreyre, Catherine Elisabeth	Saint-Laurent de Mure		FR	
Chappuis, Gilles Emile	Lyon		FR	
McNeilly, Francis	Newtonards		GB	
Wang, Li	Grand Prairie		US	
Babiuk, Lorne A.	Saskatoon		CA	
Potter, Andrew A.	Saskatoon		CA	
Willson, Philip	Saskatoon		CA	

Full	Title Citation	Front R	eview Cla	ssification	Date	Reference	Sequences	Attachme	nts Claims	KOMC	Drawa Di
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Previous Page Next Page Go to Doc#

Hit List

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Search Results - Record(s) 11 through 20 of 30 returned.

11. Document ID: US 20040091502 A1

L57: Entry 11 of 30 File: PGPB May 13, 2004

PGPUB-DOCUMENT-NUMBER: 20040091502

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040091502 A1

TITLE: Circovirus sequences associated with piglet weight loss disease (PWD)

PUBLICATION-DATE: May 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jestin, Andre	Saint-Brieuc		FR	
Albina, Emmanuel	Tregueux		FR	
Le Cann, Pierre	Pledran		FR	
Blanchard, Philippe	Plerin		FR	
Hutet, Evelyne	Plerin		FR	
Arnauld, Claire	Saint-Brieuc		FR	
Truong, Catherine	Saint-Brieuc		FR	
Mahe, Dominique	Saint-Carreuc		FR	
Cariolet, Roland	Ploufragan		FR	
Madec, Francois	Saint-Brieuc		FR	

US-CL-CURRENT: 424/186.1; 514/44

Full Title Citation Front	Review Classification Date Referen	oe Sequences Affachments Claims	KWMC Draws De

12. Document ID: US 20040076635 A1

L57: Entry 12 of 30 File: PGPB Apr 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040076635

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040076635 A1

TITLE: Circovirus sequences associated with piglet weight loss disease (PWD)

PUBLICATION-DATE: April 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jestin, Andre	Saint-Brieuc		FR	
Albina, Emmanuel	Tregueux		FR	
Le Cann, Pierre	Pledran		FR	
Blanchard, Philippe	Plerin		FR	
Hutet, Evelyne	Plerin		FR	
Arnauld, Claire	Saint-Brieuc		FR	
Truong, Catherine	Saint-Brieuc		FR	
Mahe, Dominique	Saint-Carreuc		FR	
Cariolet, Roland	Ploufragan		FR	
Madec, Francois	Saint-Brieuc		FR	

US-CL-CURRENT: 424/186.1; 514/44

Full Title Citation Front Review Classific.	ation Date Reference Sequences At	tachments Claims KWWC Draw De
13. Document ID: US 2004007	71728 A1	
L57: Entry 13 of 30	File: PGPB	Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040071728

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040071728 A1

TITLE: Vaccine for congenital tremors in pigs

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mittal, Suresh K	West Lafayette	IN	US	
Stevenson, Gregory W.	West Lafayette	IN	US	
Choi, Jiwon	West Lafayette	IN	US	
Kiupel, Matti	Lansing	MI	US	
Kanitz, Charles L.	Lafayette	IN	US	

US-CL-CURRENT: $\underline{424}/\underline{186.1}$; $\underline{435}/\underline{235.1}$, $\underline{435}/\underline{320.1}$, $\underline{435}/\underline{325}$, $\underline{435}/\underline{5}$, $\underline{435}/\underline{69.1}$, $\underline{530}/\underline{350}$, $\underline{536}/\underline{23.72}$

Full Title Citation Front Review Classification D	ate Reference Sequences Att	achments Claims KMC Draw De
14. Document ID: US 20040062775	A 1	
L57: Entry 14 of 30	File: PGPB	Apr 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040062775

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040062775 A1

Record List Display Page 3 of 6

TITLE: Circovirus sequences associated with piglet weight loss disease (PWD)

PUBLICATION-DATE: April 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jestin, Andre	Saint-Brieuc		FR	
Albina, Emmanuel	Tregueux		FR	
Le Cann, Pierre	Pledran		FR	
Blanchard, Philippe	Plerin		FR	
Hutet, Evelyne	Plerin		FR	
Arnauld, Claire	Saint-Brieuc		FR	
Truong, Catherine	Saint-Brieuc		FR	
Mahe, Dominique	Saint-Carreuc		FR ·	
Cariolet, Roland	Ploufragan		FR	
Madec, Francois	Saint-Brieuc		FR	

US-CL-CURRENT: <u>424/186.1</u>; <u>424/93.2</u>, <u>514/44</u>

Full Title Citation Front Rev	iew Classification Date Refe	ence Sequences	Attachments Claims	KNAC Drawa Da
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15. Document ID: U	S 20040009953 A1			
L57: Entry 15 of 30	Fil	e: PGPB	Jan	15, 2004

PGPUB-DOCUMENT-NUMBER: 20040009953

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040009953 A1

TITLE: Antimicrobial charged polymers that exhibit resistance to lysosomal degradation during kidney filtration and renal passage, compositions and method of use thereof

PUBLICATION-DATE: January 15, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Comper, Wayne D. North Ringwood, Victoria AU

US-CL-CURRENT: <u>514/54</u>

Full	Title	Citation Front	Review Classification	Date	Reference	Sequences	Attachments	Claims	KOMO	Drawa De
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	16.	Document ID:	US 20030186307	7 A 1						
L57:	Entr	y 16 of 30			File:	PGPB		Oct	2.	2003

PGPUB-DOCUMENT-NUMBER: 20030186307

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030186307 A1

Record List Display Page 4 of 6

TITLE: Method for growing or for removing circoviruses from biological material

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Bernhardt, Dieter Coelbe DE Weimer, Thomas Gladenbach DE Groener, Albrecht Marburg DE

US-CL-CURRENT: 435/6; 424/204.1, 435/235.1, 435/5, 435/7.1

Full Title Citation Front Review Classification Date	Reference Sequences At	achments Claims KMC Draw De
	•	
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17. Document ID: US 20030170616 A1	\$ 700 m	
L57: Entry 17 of 30	File: PGPB	Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170616

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030170616 A1

TITLE: Postweaning multisystemic wasting syndrome virus from pigs

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Wang, Li Saskatoon CA
Babiuk, Lorne A. Saskatoon CA
Potter, Andrew A. Saskatoon CA
Willson, Philip Saskatoon CA

US-CL-CURRENT: 435/5; 435/6, 536/23.72

Full	Title	Citation Front	Review Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw De
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	18.	Document ID	: US 2003017027	0 A1						

File: PGPB

PGPUB-DOCUMENT-NUMBER: 20030170270

PGPUB-FILING-TYPE: new

L57: Entry 18 of 30

DOCUMENT-IDENTIFIER: US 20030170270 A1

TITLE: Chimeric infectious DNA clones, chimeric porcine circoviruses and uses

thereof

PUBLICATION-DATE: September 11, 2003

Sep 11, 2003

Record List Display Page 5 of 6

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Meng, Xiang-Jin Blacksburg VA US Fenaux, Martijn Blacksburg VA US Halbur, Patrick G. Ames IA US

US-CL-CURRENT: $\underline{424}/\underline{204.1}$; $\underline{424}/\underline{199.1}$, $\underline{424}/\underline{93.2}$, $\underline{435}/\underline{320.1}$, $\underline{435}/\underline{69.1}$

Full | Title | Citation | Frent | Review | Classification | Date | Reference | Sequences | Attachments | Claims | Kook | Draw Da

19. Document ID: US 20030143741 A1

L57: Entry 19 of 30 File: PGPB Jul 31, 2003

PGPUB-DOCUMENT-NUMBER: 20030143741

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030143741 A1

TITLE: Rolling circle replicon expression vector

PUBLICATION-DATE: July 31, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Palmer, Kenneth E. Vacaville CA US
Pogue, Gregory P. Vacaville CA US

US-CL-CURRENT: 435/456; 435/320.1

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Ge

20. Document ID: US 20030138916 A1

L57: Entry 20 of 30 File: PGPB Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030138916

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030138916 A1

TITLE: Infectious cDNA clones of porcine reproductive and respiratory syndrome

virus and expression vectors thereof

PUBLICATION-DATE: July 24, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Yuan, Shishan St. Paul MN US Ma, Shi-Jun Shoreview MN US

US-CL-CURRENT: 435/91.1; 424/204.1, 435/69.3, 435/91.33, 536/23.74

WEST Search History

Hide Items Restore Clear Cancel

DATE: Wednesday, April 13, 2005

Hide?	Set Nam	<u>e Query</u>	Hit Count
	DB=PC	SPB; PLUR=YES; OP=ADJ	
	L76	US-20040258715-A1.did.	1
	L75	US-20040258715-A1.did.	1
	L74	US-20040258715-A1.did.	1
	L73	US-20040258715-A1.did.	1
	DB=DV	VPI; PLUR=YES; OP=ADJ	
	L72	PmWs and virus	5
	L71	PWD and virus	0
	L70	PWD and circovirus	0
	DB=US	SPT; PLUR=YES; OP=ADJ	
	L69	PWD and circovirus	2
	L68	PWD and virus	29
	L67	PWD	383
	L66	6703023.pn.	1
	L65	PCVII	1
	L64	PCVI	5
	L63	Circovirus I.clm.	0
	L62	Circovirus type I.clm.	0
\Box	L61	Circovirus and method.clm.	22
	L60	Circovirus and antibodies.clm.	7
	L59	Circovirus and antibodies	30
	L58	6573081.pn.	1
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	L57	circovirus.clm.	30
	L56	circovirus	114
	DB=US	SPT; PLUR=YES; OP=ADJ	
	L55	wang li.in. and virus	4
	L54	wang li.in. and circovirus	0
	L53	wang li.in.	164
	L52	6517843.pn.	1
	L51	621883.pn.	0
	L50	Ellis John.in. and circovirus	5

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	L44	US-6517843-B1.did.	1				
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	L41	WO-9929871-A2.did.	1				
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	DB=EF	PAB; PLUR=YES; OP=ADJ					
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	L38	WO-9918214-A1.did.	1				
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	L35	WO0089046699	0				
	L34	WO89046699	0				
	L33	L32 and L31	2154				
	L32	1989	4294967295				
	L31	Hepatitis C	2154				
	L30	HCV	1270				
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	L28	6492343.pn.	1				
	L27	piglet weight loss disease	2				
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	L26	piglet weight loss disease	6				
	L25	wang Li.in. and virus	6				
	L24	wang.in. and virus	794				
	DB=DV	WPI; PLUR=YES; OP=ADJ					
	L23	Allan G.in. and virus	4				
	L22	Allen G.in. and virus	1				
	L21	Allen G.in. and circovirus	0				

	L20	Allen G.in.	253		
DB=USPT; PLUR=YES; OP=ADJ					
	L19	PCVB	4		
	L18	circovirus type II	5		
	L17	circovirus type B	1.		
\Box	L16	circovirus	32		
	Ĺ15	6703023.pn.	1		
	DB=DI	WPI; PLUR=YES; OP=ADJ			
	L14	Allen G.in. and virus	1		
	L13	Allen G.in. and circovirus	0		
	L12	Allen G.in.	253		
	DB=US	SPT; PLUR=YES; OP=ADJ			
	L11	PCVB	4		
	L10	circovirus type II	5		
	L9	circovirus type B	1		
	L8	circovirus	32		
	L7	6703023.pn.	1		
	L6	L1 and antibodies	1		
	L5	L1 and quantify	0		
	L4	L1 and quantifying	0		
	L3	L2 and quantifying	0		
- 🖽	L2	L1 and detecting	1		
	L1	6703023.pn.	1		

END OF SEARCH HISTORY